## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Currently amended) A method for providing object change information 1 from a first system to a second system for synchronizing the second system with 2 the first system, the second system having an object cache for storing objects, the 3 4 method comprising the steps of: 5 changing an object in the first system; determining object change information representing a change made to the 6 7 object in the first system; and distributing the object change information from the first system to the 8 second system to cause the second system to merge the object change information 9 into the object cache so as to synchronize the second system with the first system, 10 wherein the object change information is automatically distributed immediately 11 after the object has been changed without the second system having to register to 12 receive the object change information. 13
- 2. (Original) The method as claimed in claim 1 further comprising a step of establishing a communication link between the first system and the second system wherein the distributing step distributes the object change information from the first system to the second system through the communication link.
- 3. (Original) The method as claimed in claim 2 wherein the establishing step establishes the communication link based on a publish/subscribe protocol.

1	4. (Original) The method as claimed in claim 1 further comprising a step
2	of registering the second system in the first system prior to the distributing step
3	wherein the distributing step distributes the object change information to the
4	registered second system.

- 5. (Original) The method as claimed in claim 1 further comprising a step of sending the object change information to a database for updating the object in the database with the object change information.
- 6. (Original) The method as claimed in claim 5 further comprising the steps of:

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- receiving an error message from the database when the updating of the object in the database fails; and
  - discarding the object change information prior to the distributing step in response to the error message.
  - 7. (Original) The method as claimed in claim 1 wherein the first system includes an object cache for storing one or more objects, and the method further comprises a step of merging the object change information into the object cache of the first system.
- 8. (Original) The method as claimed in claim 1 wherein the determining step determines the object change information as a minimal set of information representing the change made to the object.
- 9. (Original) The method as claimed in claim 1 wherein the determining step determines the object change information to include a primary key identifying the object.

1	10. (Original) The method as claimed in claim 1 wherein the object
2	includes an attribute for containing object data or a value of a relationship with
3	one, or more, other object, and the determining step determines the object change
4	information to include a change made in the attribute of the object.
1	11. (Original) The method as claimed in claim 1 wherein the first system
2	includes a cache for storing one or more objects, the method further comprising
3	the steps of:
4	receiving object change information distributed from the second
5	system and containing information of changes made to one or more objects in the
6	second system; and
7	merging the object change information received from the second
8	system into the objects in the cache of the first system to synchronize the first
9	system with the second system.
1	12. (Currently amended) A method for providing object change
2	information from a first system to a second system for synchronizing the second
3	system with the first system, the first system having a first object cache for storing
4	one or more objects and the second system having a second object cache for
5	storing one or more objects, the method comprising the steps of:
6	determining object change information representing a change made to an
7	object in the first system; and
8	distributing the object change information from the first system to the
9	second system to cause the second system to merge the object change information
10	into the second object cache so as to synchronize the object in the second cache of

the second system with the changed object in the first system, wherein the object

change information is automatically distributed immediately after the object has

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13	been changed without the second system having to register to receive the object
14	change information.
1	13. (Original) The method as claimed in claim 12 further comprising a
2	step of establishing a communication link between the first system and the second
3	system wherein the distributing step distributes the object change information
4	from the first system to the second system through the communication link.
1	14. (Original) The method as claimed in claim 12 further comprising a
2	step of registering the second system in the first system prior to the distributing
3	step wherein the distributing step distributes the object change information to the
4	registered second system.
1	15. (Original) The method as claimed in claim 12 further comprising a
2	step of sending the object change information from the first system to a database
3	for updating the object in the database with the object change information.
1	16. (Original) The method as claimed in claim 15 further comprising the
2	steps of:
3	receiving an error message from the database when the updating of
4	the object in the database fails; and
5	discarding the object change information prior to the distributing
6	step in response to the error message.
1	17. (Original) The method as claimed in claim 12 further comprising a
1	step of merging the object change information into the first object cache of the
2	step of merging the object change information into the first object cache of the

first system so as to synchronize the object in the first object cache with the

changed object in the first system.

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1	18. (Original) The method as claimed in claim 12 wherein the determining
2	step determines the object change information as a minimal set of information
3	representing the change made to the object.
1	19. (Original) The method as claimed in claim 12 wherein the determining
2	step determines the object change information to include a primary key identifying
3	the object and any changed attribute of the object.
1	20. (Original) The method as claimed in claim 12 further comprising steps
2	of:
3	receiving object change information distributed from the second
4	system and containing information of changes made to one or more objects in the
5	second system; and
6	merging the object change information received from the second
7	system into the objects in the first cache of the first system to synchronize the first
8	system with the second system.
1	21. (Currently amended) A synchronization executor for providing object
2	change information from a first system to a second system for synchronizing the
3	second system with the first system, the first system being capable of changing the
4	object, the second system having an object cache for storing objects, the system
5	comprising;
6	a synchronization manager for obtaining object change information
7	representing a change made to an object in the first system; and
8	a dispatcher for distributing the object change information from the first
9	system to the second system to cause the second system to merge the object
10	change information into the object cache so as to synchronize the object in the

second system with the first system, wherein the object change information is

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12	automatically distributed immediately after the object has been changed without
13	the second system having to register to receive the object change information.

- 22. (Original) The executor as claimed in claim 21 wherein the synchronization manager establishes a communication link with the second system and the dispatcher distributes the object change information to the second system through the established communication link.
- 23. (Original) The executor as claimed in claim 21 wherein the synchronization manager establishes the communication link based on a publish/subscribe protocol.

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- 24. (Original) The executor as claimed in claim 21 further comprising a connector for obtaining the object change information that is distributed from the second system.
- 25. (Currently amended) The executor as claimed in claim 21 wherein the synchronization manager obtains the object change information from the connector for updating the object in the first system.
- 26. (Original) The executor as claimed in claim 21 wherein the object change information is a minimal set of changes to the object.
- 27. (Original) The executor as claimed in claim 21 wherein the object change information includes a primary key to uniquely identify the object and a change in an attribute of the object.

1	28. (Currently amended) A persistence system for synchronizing an object
2	on a network, the network including a caching system having an object cache for
3	storing objects, the persistence system comprising;
1	a transaction manager for changing an object and determining object

a transaction manager for changing an object and determining object change information representing the change made to the object for updating a database; and

a synchronization executor for obtaining the object change information from the transaction manager and distributing the object change information to the caching system to cause the caching system to merge the object change information into the object cache so as to synchronize the object in the object cache with the changed object in the persistence system, wherein the object change information is automatically distributed immediately after the object has been changed without the second system having to register to receive the object change information.

- 29. (Original) The system as claimed in claim 28 further comprising a persistence system cache for storing one or more objects.
- 30. (Original) The system as claimed in claim 29 wherein the transaction manager merges the object change information into the persistence system cache.
- 31. (Original) The system as claimed in claim 28 wherein the synchronization executor establishes the network, and the dispatcher distributes the object change information via the established network.
  - 32. (Currently amended) Computer readable media storing instructions for use in the execution in a computer of a method for providing object change information from a first system to a second system for synchronizing the second

4	system with the first system, the second system having an object cache for storing
5	objects, the method comprising the steps of:
6	changing an object in the first system;
7	determining object change information representing change made to the
8	object in the first system; and
9	distributing the object change information from the first system to the
10	second system to cause the second system to merge the object change information
11	into the object cache so as to synchronize the second system with the first system,
12	wherein the object change information is automatically distributed immediately
13	after the object has been changed without the second system having to register to

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33. (Currently amended) Electric signals for execution in a computer of a method for providing object change information from a first system to a second system for synchronizing the second system with the first system, the second system having an object cache for storing objects, the method comprising the steps of:

changing an object in the first system;

determining object change information representing change made to the object in the first system; and

distributing the object change information from the first system to the second system to cause the second system to merge the object change information into the object cache so as to synchronize the second system with the first system, wherein the object change information is automatically distributed immediately after the object has been changed without the second system having to register to receive the object change information.

receive the object change information.

34. (Currently amended) A computer program product for execution in a
computer of a method for providing object change information from a first system
to a second system for synchronizing the second system with the first system, the
second system having an object cache for storing objects, the computer program
product comprising:
a module for changing an object in the first system;
a module for determining object change information representing a change
made to the object in the first system; and
a module for distributing the object change information from the first
system to the second system to cause the second system to merge the object
change information into the object cache so as to synchronize the second system
with the first system, wherein the object change information is automatically
distributed immediately after the object has been changed without the second
gygtam having to register to receive the object change information